

*Excellence in Electronics***TYPE  
CK5678**

The CK5678 is a filament type, fully shielded, subminiature pentode designed for service in RF applications requiring economy of space, weight, and battery drain. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

**MECHANICAL DATA**ENVELOPE: T-2 X 3 Glass ●BASE: None (0.016" tinned flexible leads. Length: 1.5" min.)

Spacing: 0.048" center-to-center.)

TERMINAL CONNECTIONS: (Red dot is adjacent to Lead 1)

Lead 1 Plate	Lead 4 Grid #1
Lead 2 Grid #2	Lead 5 Filament, positive;
Lead 3 Filament, negative; Shield;	Grid #3 ■
Grid #3 ■	

MOUNTING POSITION Any**ELECTRICAL DATA DATA**DIRECT INTERELECTRODE CAPACITANCES: ( $\mu\text{f}$ ds.)

Grid to Plate  
Input  
Output

0.01 max.  
3.3  
3.8

RATINGS - ABSOLUTE MAXIMUM VALUES:

Filament Voltage (dc)  
Plate Voltage  
Grid #2 Voltage

1.25 ± 20% volts  
90 volts  
67.5 volts

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

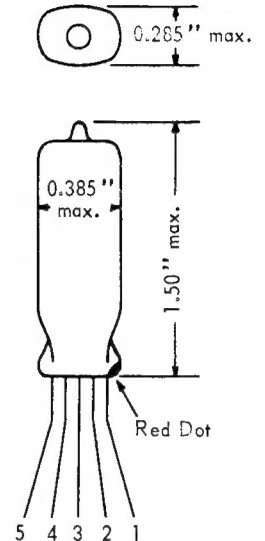
Filament Voltage (dc)	1.25
Filament Current	50
Plate Voltage	45
Grid #2 Voltage	45
Grid #1 Voltage ♦	0
Plate Resistance	1.2
Transconductance	820
Plate Current	0.8
Grid #2 Current	0.22
Grid #1 Voltage (approx.) for $G_m = 10 \mu\text{mhos}$	-3

1.25 volts  
50 ma.  
67.5 volts  
67.5 volts  
0 volts  
1.0 meg.  
1100  $\mu\text{mhos}$   
1.8 ma.  
0.48  
-4 volts

● Bulb is entirely coated with a metallic shield connected to Lead 3.

■ Grid #3 is comprised of two separate deflector plates, one of which is connected to lead 3 and the other to lead 5.

♦ Grid resistor = 5 megohms.



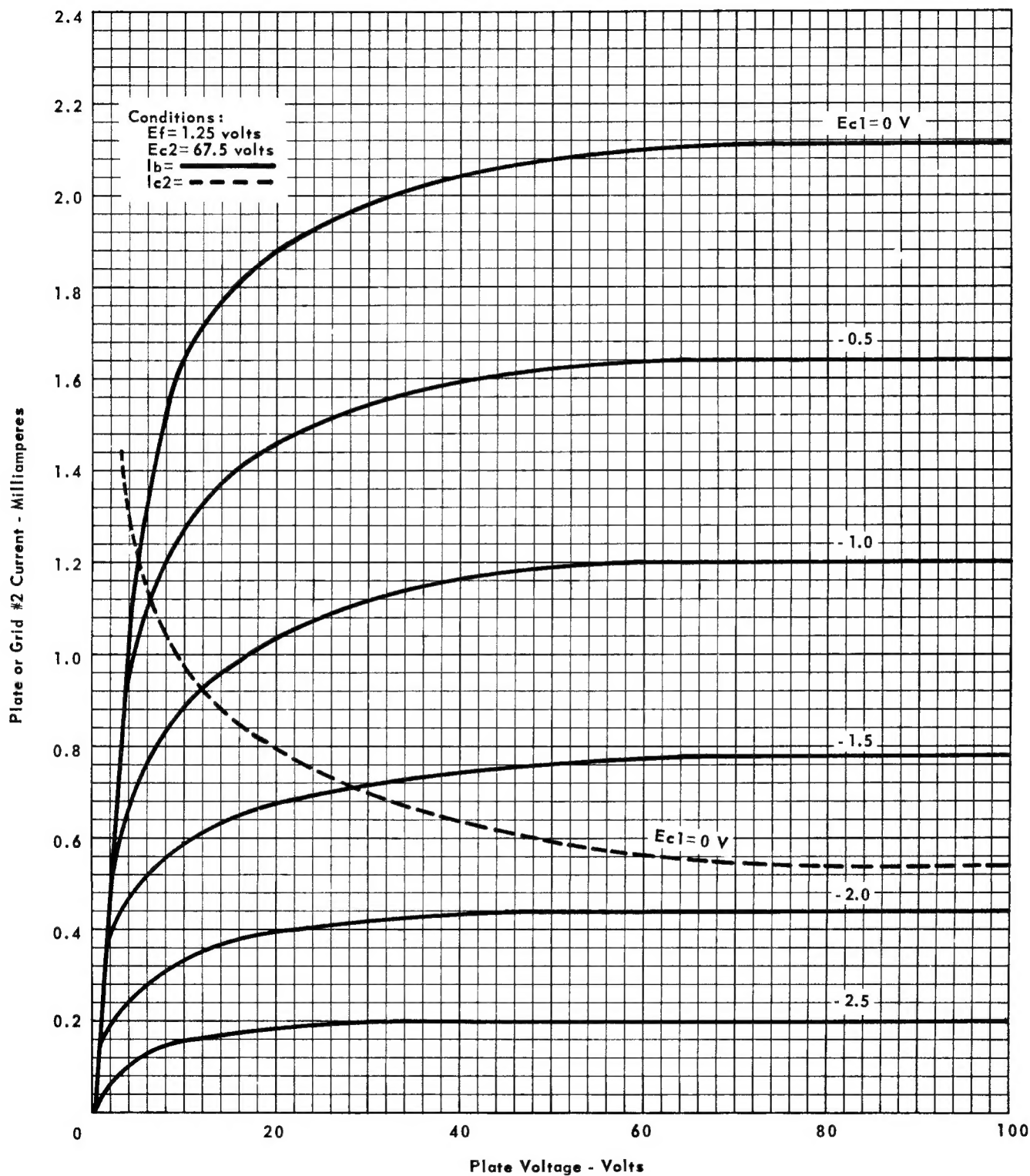
Data

**RAYTHEON MANUFACTURING COMPANY**  
RECEIVING AND CATHODE RAY TUBE OPERATIONS



## SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS

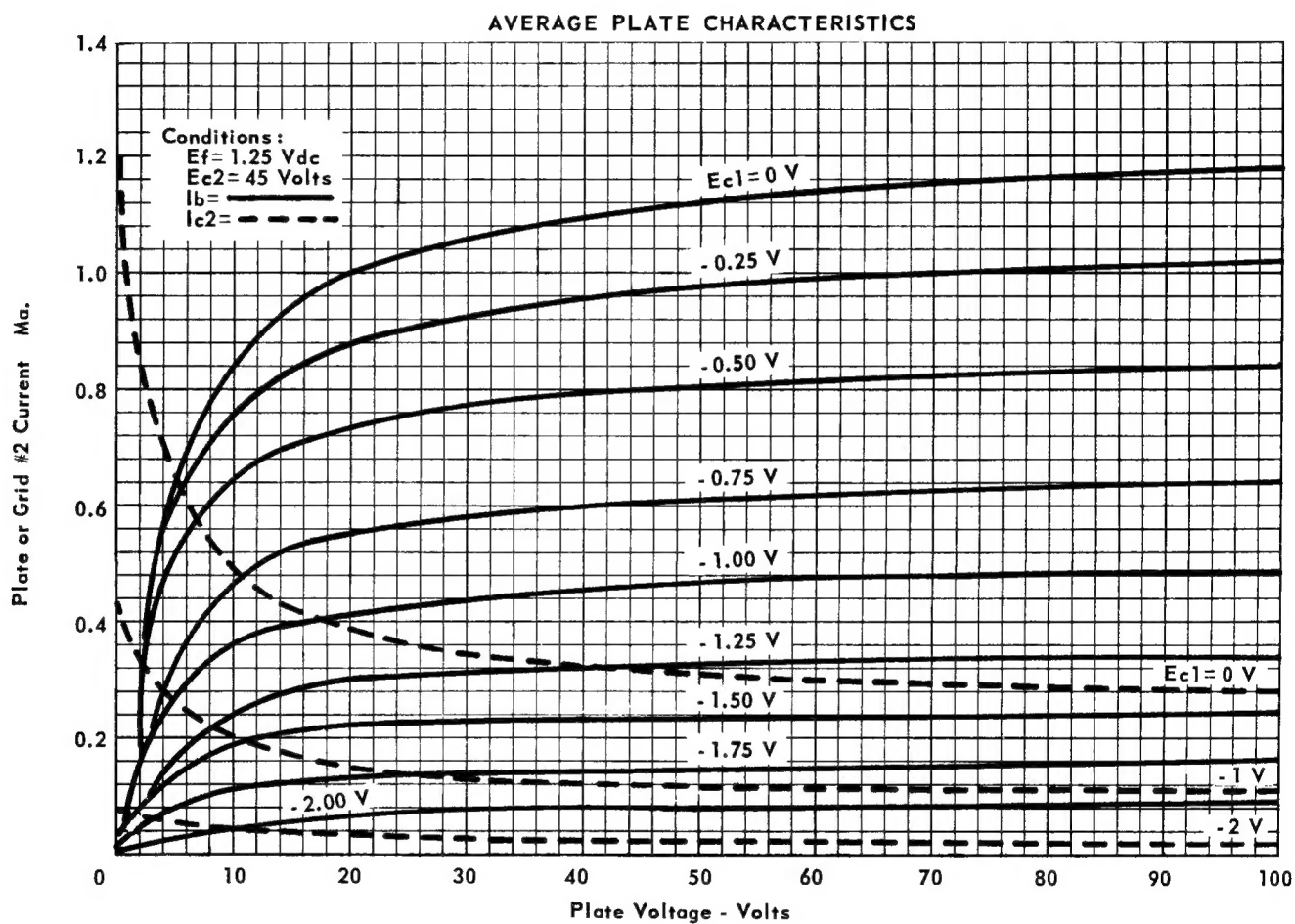


RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



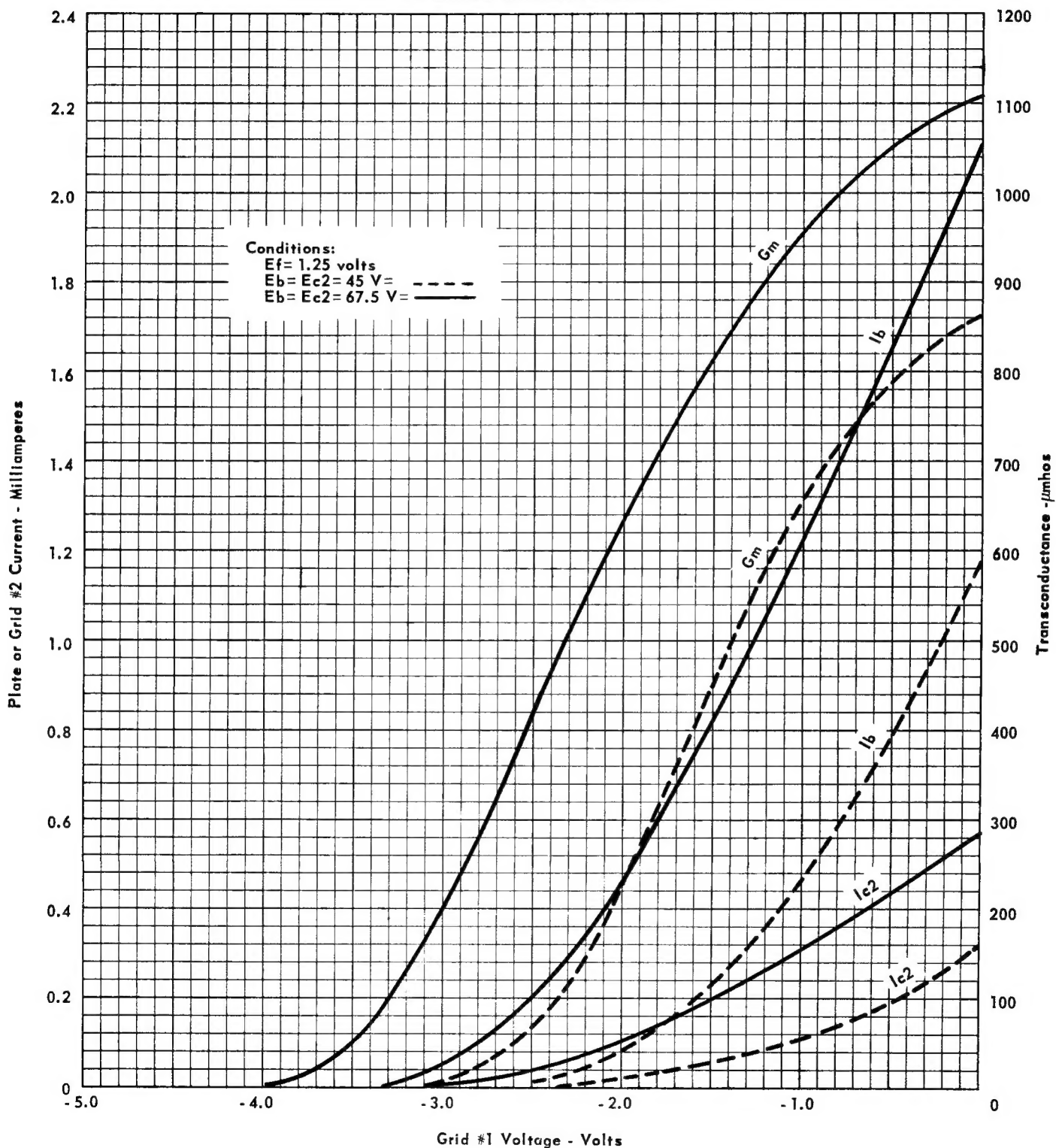
## SUBMINIATURE PENTODE





## SUBMINIATURE PENTODE

AVERAGE CHARACTERISTICS



RAYTHEON MANUFACTURING COMPANY  
 RECEIVING AND CATHODE RAY TUBE OPERATIONS



## SUBMINIATURE PENTODE

